



# Weekly Construction Report

## Hatchery Creek Design/Build Project



<b>Time Period (three weeks):</b>	November 16 – December 5, 2015	<b>Project No:</b>	1305
<b>Rain Days/Weather Conditions:</b>	<p>Rained ~1.5" on Wednesday, Nov. 18<sup>th</sup> starting at noon (Burkesville gauge) which limited work to only on spreading soil on the Disposal Area and wrecking concrete forms on Thursday.</p> <p>Did not work Nov. 26<sup>th</sup> &amp; 27<sup>th</sup> due to Thanksgiving holiday.</p> <p>Rained ~3.1" from Nov. 28<sup>th</sup> - Dec. 1<sup>st</sup> and did not work again until Dec. 3<sup>rd</sup>.</p>		
<b>Personnel on-site:</b>	<p><i>EcoGro/Ridgewater:</i> Tom Cutter, Eric Dawalt, Jim Hanssen, Larry Mounce, Brad Redmon, Randall "Mokie" Starns, Randall Starns, Jr., Sherri Arthur Trucking-John Arthur.</p>		
<b>Equipment on-site:</b>	<p>Komatsu PC 360 excavator w/ hyd. thumb, Komatsu PC 160 w/ hyd. thumb, Terex TA27 articulated off-road dump truck, Bobcat T300 skid steer, &amp; Morooka 2200 track dump truck. The Komatsu PC 210 excavator and Komatsu PC 240 excavator were removed from production and rental on Nov. 19<sup>th</sup> but not de-mobilized until the next week. The sheepsfoot compactor was removed from production and rental on Nov. 16<sup>th</sup> but not de-mobilized until later in the week.</p>		
<b>Material deliveries to project site:</b>	<ul style="list-style-type: none"> <li>▪ Benny Brown delivered: <ul style="list-style-type: none"> <li>○ 92 tons of #2 stone for haul road repair.</li> <li>○ 26 tons of #8 stone for pipe bedding and backfill.</li> <li>○ 242 tons of #57 stone for haul road repair, sidewalk subgrade, and trail construction.</li> <li>○ 175 tons of Class II and III Channel Lining for stream construction in the Public Fishing Area.</li> <li>○ 75 tons of shot rock for stream construction in the Public Fishing Area.</li> <li>○ 68 tons of DGA for trail construction.</li> </ul> </li> <li>▪ 4 cubic yards of 4,000 psi, concrete for sidewalk curb, bench pad, and pipe joint backfill was delivered by Albany Ready Mix.</li> </ul>		
<b>Work performed the past week:</b>	<ul style="list-style-type: none"> <li>• Culvert and reach upstream of Campground Road/ ~Sta. 113+00 to 118+40: <ul style="list-style-type: none"> <li>○ Finished building stream upstream and downstream of culvert.</li> <li>○ Graded soil and spread wood along channel.</li> <li>○ Built rock walking trail and steps from Campground Road to stream at ~LT Sta. 113+00.</li> <li>○ Installed rock ditches from existing ditches adjacent to road to the stream.</li> <li>○ Built rock steps upstream and downstream of culvert to access stream from Campground Road.</li> </ul> </li> <li>• Reach downstream of migration barrier /~Sta. 105+90 to 113+00: <ul style="list-style-type: none"> <li>○ Installed side wall rocks on Migration Barrier.</li> <li>○ Constructed ravine spillway with 20' bottom width where it was too narrow (from ~Sta. 0+50 to 1+90) and built plunge pool using ~24" dia. rock from temporary diversion channel.</li> <li>○ Excavated and built remaining channel from Sta. 107+00 to 107+71.</li> </ul> </li> </ul>		



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	<ul style="list-style-type: none"> <li>○ Built rock trail and steps along stream from Migration Barrier to floodplain berm at ~LT Sta. 108+00.</li> <li>○ Finished building confluence bar and covered it with spawning gravel.</li> <li>• Public Fishing Area (PFA)/ ~Sta. 101+91 to 105+90:             <ul style="list-style-type: none"> <li>○ Excavated and built remaining channel upstream of migration barrier from culvert outfall to 105+80.</li> <li>○ Formed and poured 50 l.f. of curb and bench pad for the sidewalk in the handicap fishing area.</li> <li>○ Installed 60 l.f. of 15" HDPE pipe to extend existing pipe to stream at ~Sta. 105+20.</li> <li>○ After diverting water into new channel on Nov. 23<sup>rd</sup>, filled the temporary diversion with stockpiled soil.</li> <li>○ Constructed trails along both sides of stream with #8 and #57 stone and DGA.</li> <li>○ Excavated and built new grass swale with 6" deep French Drain of #57 stone on RDB upstream of new sidewalk.</li> </ul> </li> <li>• Ravine upstream of bridge:             <ul style="list-style-type: none"> <li>○ Installed rock in existing ditch on Left Descending Bank (LDB).</li> </ul> </li> <li>• Haul Roads:             <ul style="list-style-type: none"> <li>○ Installed #2 stone in wet areas of road along Site #2 and Wetlands Re-establishment Area #2.</li> <li>○ Installed #57 stone on haul roads from Sites #2 and #3 to Power line Road.</li> </ul> </li> <li>• Corps Disposal Area:             <ul style="list-style-type: none"> <li>○ Spread stockpiled soil over area where rock pile had been.</li> <li>○ Constructed diversion swale down slope of rock pile area to reduce existing rill erosion of slope above existing wetland ponds.</li> </ul> </li> </ul>
<b>Erosion &amp; sediment controls installed/maintained:</b>	<ul style="list-style-type: none"> <li>❖ Installed temporary seed and straw on:             <ul style="list-style-type: none"> <li>○ Finished areas of Public Fishing Area.</li> <li>○ Floodplain berm at Site #3 and regraded trail along Site #2.</li> <li>○ Banks upstream of Campground Road.</li> </ul> </li> </ul>
<b>Work scheduled for next week:</b>	<ul style="list-style-type: none"> <li>✦ Finish grading soil through Public Fishing Area and along Ravine.</li> <li>✦ Finish gravel trails. (Finish grade work in wet areas will have to take place when the ground is frozen or in spring once it dries out).</li> <li>✦ Repair and add gravel to Power line Road.</li> <li>✦ Seed and straw all disturbed areas along stream and haul roads.</li> <li>✦ Finish grading work in Corps Disposal Area and seed with temporary seed.</li> <li>✦ Progress/ Punch list Meeting is scheduled for Wednesday, December 9<sup>th</sup>.</li> </ul>



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<b>Work planned for two weeks ahead:</b>	<ul style="list-style-type: none"> <li>Complete any remaining punch list items.</li> <li>Demobilize for winter until trees area planted in spring.</li> </ul>
<b>General Comments:</b>	<ul style="list-style-type: none"> <li>➤ On Tuesday, November 17<sup>th</sup>, KDFWR and USFWS personnel removed fish from the PFA stream. They used a boat with electric shockers to stun the fish so they could be netted. The trout were then transported to the Cumberland River and released.</li> <li>➤ We temporarily diverted flow into the new channel for three hours on Saturday, Nov. 21<sup>st</sup> to test the stream. It was subsequently diverted back into temporary diversion.</li> <li>➤ On Monday, Nov. 23<sup>rd</sup>, we permanently diverted the flow into the new channel.</li> <li>➤ The Hatchery Creek Public Fishing Area is closed until December 11<sup>th</sup> so we may finish construction in that area.</li> </ul>
<b>Prepared by:</b> Eric Dawalt, P.E.	<b>Date:</b> 12-10-2015

### Pictures from the past week's construction:



*Finishing construction of the stream next to the Campground Road culvert. (Picture taken looking downstream towards Campground Road).*





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***Finish grading soil and spreading stockpiled wood on Right Descending Bank (RDB) of stream.  
(Picture taken looking upstream from Campground Road).***



***Finishing construction of stream downstream of Migration Barrier. (Picture taken looking  
downstream from bridge).***





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***Finish grading next to stream downstream of Migration Barrier. (Picture taken from approximately same location as above).***



***Ravine Spillway: Installing rocks (D50 of 24") over geotextile from ~Sta. 0+30 to 0+50 on LDB of ravine spillway. (Picture taken looking at LDB of ravine spillway and upstream on LDB of stream channel).***





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***Same location as above: Installing rocks (D50 of 24") over geotextile from ~Sta. 0+30 to 0+50 on LDB of ravine spillway. Large rocks on RDB of ravine spillway have been covered with shot rock to fill void spaces. (Picture taken looking downstream in ravine spillway from confluence bar).***



***Same location as above: Large rocks on both banks of ravine spillway have been covered with shot rock to fill void spaces. (Picture taken looking downstream in ravine spillway from confluence bar).***





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***Ravine Spillway: Installing rocks (D50 of 24") over geotextile. (Picture taken looking downstream in spillway on LDB at ~Sta. 0+50).***



***Ravine Spillway: Large rocks in bottom of spillway have had shot rock installed in void spaces. Side slopes have been covered with soil. Constructed plunge pool and toe armor can be seen in background. (Picture taken looking downstream in spillway at ~Sta. 0+30).***





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***Installing side rocks of Migration Barrier. (Picture taken looking upstream at RDB of Migration Barrier).***



***KDFWR personnel shocking fish and removing them from PFA. (Picture taken looking downstream next to new handicap sidewalk).***





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***Public Fishing Area: Installing new 15" HDPE pipe to extend existing pipe to stream. (Picture taken looking towards stream from existing gravel trail on RDB @ ~Sta. 105+00).***



***Public Fishing Area: Loading shot rock to haul across temporary culvert in stream to build stream channel banks. (Picture taken Migration Barrier looking upstream).***





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***Public Fishing Area: Diverting water from temporary diversion channel permanently into the new stream. It was a momentous occasion captured by not just a few cameras. (Picture taken looking downstream from new sidewalk).***



***Public Fishing Area: Filling temporary diversion channel with stockpiled soil once water was turned into new channel. (Picture taken on LDB at ~Sta. 102+00 looking downstream).***





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***Public Fishing Area: Installing new grass swale from parking lot (shown with rock French Drain to prevent standing water) and regrading around new sidewalk. (Picture taken from LDB looking across stream at approximate same location as above).***



***Public Fishing Area: View of stream once water was turned into new channel and temporary diversion channel was filled. (Picture taken from culvert at exit from Hatchery looking downstream).***





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***Step Pool Reach: Two hours after the water was diverted into the new stream it was flowing at the step pool reach into the Cumberland River. (Picture taken looking upstream).***



***Step Pool Reach: Two hours after the water was diverted into the new stream it was flowing at the step pool reach into the Cumberland River. (Picture taken looking downstream towards Cumberland River).***